1 A Oh, other people did studies and said, well, we risk: is that correct? 2 did not find that, so it must be wrong. .... 2 A. No, they didn't. All they did is 20 patients. 3 Q So there was a debate in the scientific 3 and 20 controls. It is not a population study. You 4 literature about whether Falck was correct? can't do relative risk. What you are doing here is a 5 A There was some disagreement about it, yes. 5 biomarker study. 6 Now, I think now things are beginning to come back with 6 Q Simply showing a correlation between a level 7 the congener specific analysis. They are going to come 7 of --8 back and probably validate what they put forward in '92. A Right. As they say in the brief introduction. 9 Q What Falck, et al., put forward in '92? this class of compounds is a good candidate for being a 10 Α Yes. 10 risk factor for breast cancer. That is why they looked 11 Q But Falck and his co-authors were looking at 11 at it. 12 PCBs generally, not specific congeners? 12 Q That is really all they are doing, to try to 13 A\* That's right. They looked at, as I said, a 13 find out if it is a risk factor? 14 summation technique. 14 A Right. 15 Q And that was the technique that we saw cited in 15 Q Not to find out to what extent its risk factor 16 later literature where the author said indidn't show 16 or what dose level -17 any association? 17 A No, there is no quantification intended or 18 A Yes. 18 implied here. 19 Q ... And what Falck actually does say is on page. 19 . . Q And -20 145, "The finding of higher tissue levels 20 A And what it does simply say is that the higher 21 among cancer cases may also 21 the exposure, presumably the higher the risk. 22 signify a redistribution of chemicals to 22 Q Does it say that? 23 the breast during the disease process." 23 A No, I said it implies. That is the implication 24 Do you see that? 24 of the study and that is why it created such a stir, 25 A Yes. 25 because it raised the possibility, oh, my God, there may 792 1 Q Do you agree with that statement? 1 be this chemical that is in every single person in the 2 A I think subsequent events would indicate that 2 United States. 3 is probably not occurring. 3 It is in half the foods that we eat and it 4 Q That subsequent examination of specific levels 4 causes breast cancer, maybe that is why the rate of 5 of specific congeners -5 breast cancer has doubled in last 20 years. 6 A Yes, where they looked at blood fat PCBs and -Q PCBs are in half the food we eat? 6 7 you know, this was a tissue issue. There is no reason 7 A Oh, yeah, just like dioxins. Particularly in 8 to think that patients with breast cancer would have farmed salmon. 9 higher blood PCB levels. 9 Q Right. We talked about that. 10 I-mean, there is just no precedent for that. A But there is a lot of other foods where it is 10 11 In fact, there is not even any data to support the 11 present not in such high amounts like in salmon, but it 12 notion that there is distribution of greater number of 12 is present. 13 PCBs into the breast tissue of a patient with breast 13 THE WITNESS: Time for a break? 14 cancer. I mean, there is no biological support for that MR. HOPP: Let's take one. 14 15 notion. 15 (Brief recess.) 16 (Defendants' Exhibits 137 was marked for Q . But why do scientists look at breast tissue and ... 16 17 calculate PCB levels in breast cancer patients as 17 identification by the court reporter.) 18 opposed to looking at -- I don't know -- legs or toes? 18 BY MR. HOPP: 19 A Because breast tissue is a fatty tissue and the Q Handing you what we have marked as Exhibit 137. 19 20 chemical accumulates in fat. 20 This is the Hansen article referenced in your report at 21 Q is lipid filled? 21 number seven under breast cancer; correct? 22 A Yes. But you are also interested in disease in 22 A Yes. 23 that organ. You want to know is there a concentration 23 This actually talks about male breast cancer 24 in that organ of this chemical. 24 after occupational exposure to gasoline and vehicular 25 Q So Falck, et al, did not calculate relative 25 combustion products; right? 793 795

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to these chemicals that developed a rare disease. Α Yes. 1 2 2 Oftentimes rare diseases, like men's breast Q What relevance does it have to Sherrie Barnes? 3 3 A Well, that's a good question. The mechanism of cancer or mesothelioma can give us a lot of clues and 4 4 breast cancer in men is possibly different than the should be followed up when they occur. 5 5 Q Would it be fair to characterize the Hansen breast cancer in women. 6 I mean, men and women's breast cancer may have 6 paper as generally informative, but not directly related 7 7 to the cause of Sherrie Barnes' breast cancer? a different etiology. I think probably the important 8 issue here is this would be support of these chemicals A Yes. 9 that were, in this case, particularly the benzene and 9 in fact, the article does not calculate the 10 10 relative risk for breast cancer in women; is that right? the PAHs are present in our case here. 11 11 And the implication of the study was that there A. Correct. 12 was an increased risk that they thought was attributable 12 Q And at what exposure level does the study 13 13 indicate that breast cancer has increased in men? to these exposures and this is a one case report. 14 It is not terribly important to our overall 14 A Well, he has got an odds ratio here of 2.2 with 15 case, but it is - let's go to the last paragraph where 15 no lag time and 2.5 with ten years of lag time with 16 he discusses this issue. 16 statistical significance. 17 Q Lag time being years of exposure? What does He basically talks about, "The 17 18 Elevated risk of breast cancer 18 lag time mean? 19 19 A No. What that does is it allows for more Among men, occupational exposed 20 Gasoline and combustion products 20 latency. 21 21 Has not been reported previously Q Okay. 22 22 Except in one small study with A In other words, you look at the people's 23 23 nonsignificant odds ratio of 1.3. exposure and then you make sure that you are at least 24 24 allowing for ten years of lag time from the time of However, two recent studies show an 25 25 exposure to the time of the disease diagnosis. increase in breast cancer in women 796 798 1 exposed to benzene and PAHs." 1 Q Is it accurate to say that the Hansen study doesn't examine specific exposure levels, but rather 2 Which is the Petralia study, I believe is also 2 3 on this list. I know it is on my new list. 3 looks at occupational exposure of gasoline and 4 And it is here on this list, and then he 4 combustible products in general? 5 5 A Yeah, 230 male employees were members of the states, "The similarities among some of 6 National Pension Fund and the country is Denmark. And The known risk factors for breast 6 7 7 he looks at job title for exposure. Cancer in men and women and a 8 Similar variation in incidents 8 Q Okay. So there is no exposure data for the 9 9 Point to common etiologic factors: individual study subject? 10 10 therefore, gasoline and combustion A No. 11 11 Q Next one on your list - your breast cancer products caused breast cancer in 12 reference list number eight is the Holford, Men. It probably does so in women, 12 13 too." 13 H-O-L-F-O-R-D, study? 14 A Yes. And then it goes on to discuss some other 14 15 things. 15 Q Handing you what we have marked as Deposition 16 Q So the author is hypothesizing that this result Exhibit No. 138. This is a copy of the Holford study. 16 17 The Holford study is entitled Joint Effects of Nine that he obtained in this paper might be applicable to 17 Polychlorinated Biphenyl (PCB) Congeners on Breast 18 women, as well; is that fair? 18 19 A Yes, and then he alludes to some other studies 19 Cancer Risk; is that right? 20 (Defendants' Exhibits 138 was marked for that showed he doesn't do an exhaustive review. Where 20 21 identification by the court reporter.) we actually know that there are other papers that he 22 could have cited. 22 THE WITNESS: Yes. 23 Q Sure. And we will get to those. 23 BY MR. HOPP: 24 But the point is that it is just another study 24 And Holford looked at nine PCB congeners; Q 25 25 of a case of someone who has some pretty good exposures right? 799

1	A Yes.	1	included in linear logistic model."
2	Q And, generally, what did Holford conclude?	2	Q What the heck does that mean? Do you
3	A There is an association with some of them.	3.	understand that?
4	Let's see if I can make sense out of this.	4	A Yeah, they are doing statistical analysis,
5	Table 2 shows odds relative risk associated	5	which is when you have multiple variables like this,
6	with a ten PB change in exposure to individual congeners	6	you know, a dozen or so PCBs, plus other variables, ag
7	by type of model; and I think the risk associated	7	and whatever else you put in the model, you have got a
8	congener values that are listed in the middle .2153 and	8	very complex statistics; but not being a statistician, !
9	156 is not being significant.	9	cannot really explain to you what they are doing. It is
10	Q Okay.	10	a very high order statistical.
11	A But 183 is significant.	11	Q Well, principal component analysis is the
12	. Q 180 is slightly elevated, but not significant;	12	general name for what they did?
13	right?"	13	•
14	A Yes, 180 is slightly elevated, but it is not	14	Q All right.
15	very significant. It is almost significant, it is .99.	15	A In the Statistical Methods, they discuss their
16	It is real close. Anyway	16	analysis, how they did it, and one they want to look at
17	Q But 183 is the culprit in that Holford paper;	17	the joint effects of individual PCB congeners on the
18	right?	18	risk of breast cancer and whether the effect of each
19	•	,	congener was the same, which was tested using linear
20	statistically significantly associated.	20	contrast.
21	Now, on Table 3, they give an odds ratio	21	"If these results suggested
22	associated with a level of PCB in quintiles and they	22	That the magnitude of effect on
23	divided them into five levels.	23	Breast cancer risk was different
24	Q I'm sorry. Table 3?	24 25	From the congeners, then it  Would not make sense to evaluate
25	A Table 3, it is at the bottom of 979.	25	802
<u> </u>			
1	Q Okay.	1	Total PCB exposure, but to
2	A And there, they - as the level of the PCB	2	Investigate the joint effects of each
3	increased, the odds ratio of relative risk I think it	3	congener. Regression diagnostics
4	is related risk score, which is similar to relative	4	Were used to determine whether:
5	risk, it is adjusted estimates of relative risk. Risk	5	The results were sensitive to one or
6	becomes statistically significant only at the top	6	more influential observations."
7	quintile. Otherwise, the curve is pretty flat.	7	Q I'm sorry.
8	Q And Table 3 is looking at all of the congeners.	8	A Now, we are talking about regression
9	that are being studied or is it	9	diagnostics was used on one or more influential
10	A They have some kind of PCB score. It is a second	10	observation:
11	score let's see how they scored it. Somewhere in	11	"But the overall conclusions
12	here they describe the score.	12	Were found to be stable. Bootstrap
13	All right. Well, it is on Page 977. It is	13	methods were used to estimate Bias in the estimates of risk, as well
14 15	called Principal Components, and they describe what they did.	14	as providing alternative estimates of
.16	"in order to understand better	16	standard errors. While the resulting.
17	the nature of the effects for	17	standard errors were slightly greater,
18	individual congeners, principal	18	the conclusions were essentially
19	components analysis was used	19	unchanged, so these results are not
20	to create factors that were	20	present."
21	independent of each other.	21	I think what they are saying is that their
22	Using PRO PRINCOMP in SAS we	22	principal component analysis is what they used and that
23	estimated the eigenvectors, which	23	is what they used in Table 3 as a related risk score.
24	provided loading scores that gave	24	Q And above Table 2, the authors point out, the
25	rise to new variables to be	25	statement is, "Notice that some congeners
l	801	}	80:
!			

1 people get this disease, that anything that contributes Are positively associated with breast 2 2 to the risk is important to address. cancer risk, while others are negative"; 3 is that right? 3 Q Is this a case control study? 4 A Well, if you look at the standard coefficient, 4 A This is a biomarker study. I mean, there is 5 5 cases and controls. What they are doing is they are the first line, when it says, negative .021, that means that the higher the PCB level of the congener, the lower studying the presence of a biomarker in PCBs in two 6 7 the breast cancer risk. 7 populations to see if the testing hypothesis that the 8 cases would have a higher level of these chemicals than Q All right. 9 9 So that is right. There were three - four the controls. Α 10 10 that were negative and then one, two, three, four, five And the answer is, yes, and it does show 11 11 that were positive. correlation. 12 And 180 was the most positive statistical and 12 Q Does this study indicate what dose of any 13 it reached almost statistical significance and 183 did. 13 particular PCB congener is necessary to cause an 14 Q And in the Discussion section, this is on Page 14 increased risk of breast cancer? 15 979, the authors point out that, "The, 15 A No, I mean, if you look at the -- I don't think Association of total PCB exposure with 16 16 there is a single measurement in this whole paper. It 17 breast cancer risk in this analysis was 17 is all statistical analysis. 18 estimated to be small and inverted." 18 Let me just see. Maybe they are mentioned 19 Is that what you are talking about? 19 somewhere. The level - no, what they are really trying 20 20 to do is the correlation or the association of the A Yes, for those who had it -- the higher the 21 level, the lower the risk, suggesting - I think, you 21 chemical versus the risk. And that is not going to give 22 22 know, you can find and do these fancy statistics. You you thresholds or slope factors. 23 can find things like this. That may not mean anything. 23 Q The next paper in order on your reference list, 24 The most important thing here is to look at all 24 this is number nine, is the Hoyer paper; is that right? 25 the congener correlations, and 180 and 183, again, 25 A Yes. 804 806 1 correlates strongly with the total congeners. 1 Q I am handing you what we have marked as 2 2 In other words, you are getting a positive deposition Exhibit No. 139. 3 effect on the breast cancer. And like the other studies 3 (Defendants' Exhibits 139 was marked for we have looked at, if you add up all of the PCB 4 identification by the court reporter.) 5 5 congeners, that also correlates with breast cancer risk. BY MR. HOPP: 6 So what it would suggest is that the overall 6 Q Is this the Hoyer paper? 7 7 A Yes. mixture, maybe some components being more important than 8 others, is contributing to the risk; and that the 8 Q And it is entitled Organochlorine Exposure and 9 9 negative components do not outweigh the positive Risk of Breast Cancer. What question was Hoyer trying 10 components in terms of causing the effect that we are 10 to answer? 11 seeing in the increased risk. 11 A The same question. He looked at Dieldren, Q But they do balance out and that is why the 12 12 which is an organochlorine. He looked at 13 authors say that the overall risk is small? 13 chlorocyclohexane, which is another pesticide, 14 A That's correct. 14 organochlorine pesticide. 15 Q And they go on in the Discussion section and 15 Q Did this study look particularly at TCDD or 16 say, "These results suggest that some 16 dioxin? 17 Congeners have a protective effect on 17 A No, it looked at PCBs, DDE, but it did not look 18 breast cancer risk, while others are 18 at dioxin per se. 19 associated with an increased risk"; is 19 Q So this would be another study that is 20 that right? 20 generally informative, but it is not directly related to 21 That's right. That is correct. 21 Shemie Barnes; is that right? 22 And I think that is consistent with all the 22 A Yes. For the reasons that I indicated earlier, 23 data. It shows that there is a small but significant 23 i thought it was relevant. increase in risk. And the reason it is important is 24 Q And they actually looked at serum levels; is that there are so many dam people exposed and so many 25 that correct? 805 807

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1	A Yes.	1	influence on the risk of breast cancer."
2	Q So these are blood samples and not tissue.	j -	Is that right?
3	samples?	3	A Yes, in this study, they did not find an
4	A Yes, serum sampling. That is right.	4	increase in breast cancer. That's correct.
5	Q The Result section indicates that,	5	Q The next study in order under List of Breast
6	"The risk of breast cancer decreased	6	Cancer References is the – maybe you can pronounce i
7	with increasing number of full-term	7	for me. Kogevinas paper?
8	pregnancies and increased with" I'm	8	A Kogevinas is as good as any.
1	· · · · · · · · · · · · · · · · · · ·	_	Q Kogevinas, K-O-G-E-V-I-N-A-S.
9	sorry "and increasing with body	9	
11	weight and height."	10	I am handing you what we have marked as
1	Do you see that?	11	deposition Exhibit No. 140, which is the Kogevinas
12	A. Where are you reading from?	12	paper.
13	Q The Result section, this is Page 1818 starting	13	(Defendants' Exhibits 140 was marked for
14	right above that table.	14	identification by the court reporter.)
15	A "Increasing number of full-term	15	BY MR. HOPP:
16	Pregnancies and increasing with	16	Q Now, this is a review article; is that right?
17	Body weight and height."	17	A It is.
18	So height was made a standard.	18	Q So it doesn't report on a new experiment, but
19	Q You wouldn't think so. But Hoyer at least * ***		rather discusses studies done by other people?
20	concludes that increasing body weight and height are a	20	A Yes.
21	risk factor; is that right?	21	Q And does Kogevinas find well, let me what
22	A This is the first time I have ever seen height	22	does Kogevinas conclude, generally, based on the other
23	as a risk factor for anything. And unmarried women had	23	studies?
24	an 89 percent higher risk than married women. It is	24	A More studies are needed. That was his main
25	probably because they didn't have babies.	25	conclusion, but he reviews some of the studies and it is
	808		810
1	Q Moving on down this page, this is 1818. It	1	interesting in that respect.
2	says, "We found a slight increase in	2	Q And that is, again, generally informative, but
3	Risk of breast cancer with increasing	3	not particularly relevant to Sherrie Barnes?
4	concentrations of BHCH, but no	4	A Correct. He gives a list of the various
5	association was apparent for total	5	studies and notes, you know, the breast cancer,
6	DDT or total PCBs."	6	including male breast cancer, has been found to be
7	Do you see that?	7	increased.
8	A Um-hmm.	8	Q He finds increasing mortality from breast
9	Q So this study tends to conflict with some of	9	cancer that is not statistically significant; is that
10	the other studies which have indicated PCBs increase the		right?
11	risk of breast cancer?	11	A Yes.
12	A Well, they did 28 PCBs. They don't tell us	12	Q That is in Table 5?
13	which ones. So this wasn't as detailed a congener	13	A Yes. Table 5 he is looking at – where is
14	analysis as the others.	14	that? He has got different references 170 where is
15	They do list them here. And – yes, they just	15	it? I am trying to see what his references are for
16	didn't find a correlation.		that.
17	Q And then the Conclusion, which is on the last	17	Anyway, he I guess, IARC's international
18	page states, "Our results support the	18	cohort study of phenoxy herbicides or chlorophenols
19	· · · ·	19	where TCDD was presumed to be present and the SMRs are
20	Hypothesis that organochlorine compounds, such as dieldrin,	20	elevated for all of the cancers, but all malignant
21		21	neoplasms are statistically significantly increased.
22	Which have oestrogenic properties,	22	• • • • • • • • • • • • • • • • • • • •
23	May increase the risk of breast cancer.		And the individual types of cancer, breast
	They do not, however, suggest that	23	female is almost statistically significant. The odds of
24	exposure to total PCB, total DDT,*	24	SMR is 2.16, but the confidence interval is at .99. We
25	And I guess, "P prime-DDE have any	25	are talking about 100ths off. Otherwise, it would be
	809		811

statistically significant. which is required to increase the risk of breast cancer; 2 So that, in light of all the other evidence we 2 is that correct? 3 have, this is supportive. 3 A No. 4 Q All right. But you are looking in this paper, 4 Q The next paper in order on your list of breast Table 5, you are looking at nine deaths; is that right? 5 cancer references is the Laden paper, L-A-D-E-N; is that 6 A Yes. 6 right? 7 7 Q Out of how many expected? Α Yes. 8 A Well, that would be 2.16 more than expected. 8 Q And it is number 11; correct? So you would expect in that population - I guess, the 9 Α 174 reflects the number of something rather -- what is Q I am handing you what I have marked as 10 it? I don't know the number of people at risk; but they 11 Deposition Exhibit No. 141. 12 expected half of that many cases. So there is a 12 (Defendants' Exhibits 141 was marked for 13 doubling of risk. 13 identification by the court reporter.) 14 Q If the spread at the 95 percent confidence 14 BY MR. HOPP: 15 interval includes one, then it is not statistically 15 Q This is the Laden paper; is that right? 16 significant? 16 17 A Yeah, I know. And if it was one more, it would 17 Q" And the Laden paper looks at the Nurses' Health 18 be. 18 Studý; is that right? 19 That is the point I am trying to make is it is 19 Yes. 20 very close to statistically significant; but if the 20 Q Is that otherwise sometimes called the Harvard 21 numbers were bigger, it would be significantly. 21 Nurses' Study? 22 And as I say, by itself, it would not be 22 A Well, this is from Harvard. So it could be 23 23 important, but taken in light of all of the other considered the Harvard Nurses' Study. 24 evidence, it is supportive. 24 Q Have you heard that expression before, the 25 Now, the same is true of male breast cancer. 25 Harvard Nurses' Study? 812 814 It has doubled 2 1/2 times the -- twice as they 1 No. I heard the Harvard Doctors' Study, but 2 expected. 2 yesterday when you mentioned the Harvard Nurses, this is 3 And, again, that goes along with our other the first I heard of it. 4 observations about this and, similarly, prostrate is 4 But as I said, this is a study of nurses elevated. Testes is elevated. Thyroid is elevated, and 5 conducted by Harvard. So it would be appropriately 6 all endocrine organs are elevated. The numbers are 6 called that. 7 small. 7 Q And correct me if I am wrong, but it appears 8 Q And not statistically significant? 8 that what happened was Harvard or some group at Harvard 9 A Not statistically significant, but the point is 9 has collected and has continued to collect data on a 10 all of these cancers are endocrine disruption sensitive 10 large group of nurses. 11 cancers. And, again, in view of other information, it 11 It is sort of a prospective study. It examines certainly is worth paying attention to. 12 12 health effects over the course of the lives of these 13 Now, if you go over to the last one, 13 women? 14 "All workers exposed to any phenoxy 14 A Yes, just like the doctors' study. Same idea. 15 herbicide or chlorophenyl." 15 Q The idea is to -16 Q Still on Table 5; right? 16 A Follow the large group and see what happens to 17 A Still on Table 5. You have got a statistically 17 them and look at the different risk factors 18 significant excess of, again, all malignant neoplasms 18 prospectively. 19 and other endocrine organ cancers are elevated 19 Q It states, at the end of the abstract, 20 statistically significant. 20 "The majority of studies have concluded 21 So it would appear to me that, you know, this 21 the exposure to PCB are unlikely to be a 22 paper is useful. 22 major risk factor for breast cancer." 23 Q In a general way? 23 Is that right? 24 A Correct. 24 Are you talking about --25 Q It does not identify a particular dose level 25 I am looking at the end of the abstract. 813 815

A Although there is no independent association, or not it would be relevant to test her. 2 blah, blah - yeah, the point of this paper is ..2 Q - This study looks at latent PGBs; correct? 3 3 A Correct. that if you look at the nurses who have this particular polymorphism, CYP1A1-exon 7, this is a risk factor for 4 4 Q Doctor, I have handed you what we have marked 5 breast cancer. as Exhibit 142. This is the next reference on your 6 breast cancer list. It is number 12 and the author is Q Okay. 7 7 Leis or Lees. L-E-I-S. A And I think what they found was -8 Q Was what he found that this was a genetically 8 (Defendants' Exhibits 142 was marked for 9 susceptible population? 9 identification by the court reporter.) 10 10 THE WITNESS: Yeah. A Correct. 11 Q Okay. Doctor, do you want to continue with 11 BY MR. HOPP: 12 your answer? 12 Q And this is really just a paper on diagnosing 13 A What they say here is, "However 13 breast cancer; is that right? A Yes, it has risk factors. That is the reason 14 High levels of PCBs may be associated 14 15 with breast cancer risk in the subgroup 15 it is here. 16 of women who have variant 16 Q But does it talk about environmental risk 17 CYP1A1-exon 7 polymorphism." 17 factors or TCDD? 18 Additional studies are needed to examine 18 A Not really, it talks - Table 1 and Table 2, 19 19 exogenous estrogen, which would be in birth control that possibility. 20 20 Q That is CYP1A1-exon 7 polymorphism, that is pills and hormone replacement. And then it says, 21 21 something to do with the particular genetic structure of "Carcinogenic exposure, 22 22 these women; is that right? particularly to viral agents 23 23 A Yes. and some drugs." 24 Q It is a gene? 24 Q So -25 25 A Their ability to transform the PCBs or handle A Really, it just kind of gives you a list of 818 816 1 things that have been raised as - just kind of a them is impaired or reduced. 2 general review of the disease. So you know what you are Q And that's the only study - strike that. 3 3 That is the only population in which the Laden talking about. 4 Q Not very informative with respect to causation? paper found an effect with increased levels of PCB; is 4 5 that right? 5 A Correct. I don't think he has references for a 6 A That's right. lot of those causative factors. He doesn't give a 7 Q And we don't know whether Sherrie Barnes had 7 reference. He makes the assertion in this table. 8 that particular polymorphism, do we? Q The next breast cancer reference that you have 9 A No. You asked me that yesterday. So we don't in order, number 13, Lucena, L-U-C-E-N-A; is that right? 10 10 A Right. have any studies on Sherrie Barnes or anybody else on 11 cohort. It is not a routine thing you send to the lab. 11 Q I am handing you what we have marked as 12 Q You have to take a tissue sample? 12 Exhibit 143. 13 13 (Defendants' Exhibits 143 was marked for A You have to do genetic studies. That is what 14 identification by the court reporter.) you have to do to find this particular variant. It is 14 15 15 expensive and it is possible to be done. But it is very BY MR. HOPP: 16. important particularly in people that we don't have 16 Q This is the Lucena paper; is that right? 17 disease in yet; but we want to know who is at high risk. 17 A Yes. 18 These kind of studies would be highly relevant. 18 It is entitled Short Communication. Is this -19 Q - Would it be possible to test Kenesha Barnes to 19 is there some significance to that? 20 find out whether her mother had that particular 20 A Well, what they do is they write a very brief 21 polymorphism? 21 paper presenting one table, maybe, which they think is 22 A Well, we would have to check her dad, too, I 22 important when they want to publish it as a -- quickly, 23 don't know how the inheritance goes for that particular 23 so it is easier for the reviewers to deal with a short 24 24 gene. I don't know if it can be an acquired defect, i paper with very little information, so you can get it 25 would have to study it to answer that question whether 25 published faster.

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1 Q Right. And this paper really identifies one reference list is the Manz paper; is that right, 2 2 specific congener or PCB? M-A-N-Z. 3 3 A Yes. A 28. 4 Q As associated with an increase risk of cancer; 4 Q I have marked that deposition as 144. This is 5 the Manz paper; is that correct? is that right? 5 6 6 (Defendants' Exhibits 144 was marked for A Yes. Fascinating. It is like every paper has 7 a different congener. Congener of the week. 7 identification by the court reporter.) 8 THE WITNESS: Manz paper, correct. 8 Q Did Lucena look at other congeners? 9 9 A They looked at a bunch of them. It is listed BY MR. HOPP: 10 on the top of 118, left-hand column. 10 Q M-A-N-Z? 11 Q But the only one they found that significantly 11 A M-A-N-Z, from Germany. 12 increased the risk of breast cancer was 28; correct? 12 Q This is a German study of exposure, actually, 13 A Yes. 13 of workers in a chemical plant; is that right? 14 14 A That's correct. Q Once again, they think there is a great need 15 for more studies? 15 Q And they characterized - first of all, it is a 16 A That's, as I told you, every study will say 16 retrospective mortality study; correct? that. It is the stock and trade of a researcher. 17 17 A Yes. 18 Q Does Lucena calculate a relative risk for 18 And they characterized the herbicide workers in Q 19 exposure to PCB 28? 19 this plant in Germany as being having been exposed to 20 A Yes, 9.597, huge odds ratio. Same thing. 20 heavy contamination of 2, 3, 7, 8-TCDD? 21 Q But it does not identify a particular dose 21 A Yes. 22 22 level for that congener which would result in that Q But only seven percent of the women worked in 23 increase risk; is that correct? 23 high exposure areas of the plant; is that right? 24 24 A I don't see that it was quantified. What they A Yes. 25 said was in the difference between the exposed and the 25 Q Did they detect an increased risk of breast 822 controls, it was a ninefold difference in that chemical. 1 cancer as a resulted of heavy exposure of 2, 3, 7, 2 Q So, what they were - this was a study in Spain; 2 8-TCDD? is that right? 3 A I think this is overall, the SMR for carcinoma A Yes. of the breast was 2.15 with a 95 percent confidence 4 4 5 Q And they were actually looking at breast tissue interval of 0.98. that had been removed from women who had breast cancer; Again, right at the borderline, and 409 for 6 correct? 7 nine deaths. 8 A Yes, that's correct. 8 Q And this is what table? 9 Q And these were malignant lesions? 9 A It is on Page 962 under Mortality Among Women. 10 A Well, in the exposed, they were malignant. 10 Q All right. Malignant neoplasms were right at not 11 Q And the controls, they were benign lesions; is 11 12 that right? significant, but the breast cancer was. And that's 12 13 really the point of the paper, which is about TCDD. A Benign lesions. 13 14 Q So what they found was that if someone had a 14 Q Okay. So it is just about TCDD, and the 2.15 15 detectible level of PCB 28 in the malignant lesion, 15 is an increased SMR, but is it statistically those people turned out to have a 9.597 odds ratio; is 16 significant? that correct? 17 A Well, it is right at that borderline at 0.98. 17 A That's right. Again, the 95 percent confidence level includes 18 18 Q 19 Q How is this paper - strike that. 19 one? 20 How does this paper relate to or inform your 20 That's right. It is right at the borderline. Α 21 opinion with respect to Sherrie Barnes? 21 Again, I think I have said it before, when it 22 A The same as the other PCB papers. We are 22 is taken into the context of everything else, it is talking about a similar toxicity for dioxin-like 23 supportive. They also review a study, which I don't 24 chemicals. 24 think we got, but --25 25 Q The next one in order on your breast cancer Q Which study is that? 823 821

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A I am just looking at it here. I am wrong. poisoning; correct? 2 2 A Not yet: That's the only point of this study. 3 Q How about the women in Vienna, Austria; did Q Does the Manz paper identify a dose level of 2, 3 4 3, 7, 8-TCDD, which is significant for increasing the 4 they -A They have not died yet either, but they are 5 risk of breast cancer? 5 6 A No. 6 being followed. They are about ten years from the onset 7 Is the exposure level documented in the Manz 7 of exposure. And -Q 8 Q Did they --8 paper? A No, they don't do blood levels or the chemical 9 A They are quite ill and I suspect Victor 9 plant was found to have high TCDD levels enough to cause 10 Yushchenko is quite ill. They have been attempting to 10 chloracne. And that was led to the change in practices get the levels down using various techniques to 11 12 detoxify, but nothing is working. But the levels of to reduce exposures. Q So qualitatively, they think it was high 13 both the two women from Austria and Yushchenko are still 13 14 extremely high. 14 because of the chloracne? 15 A Well, we know that when you get chloracne, you 15 Q They were using Olestra, I think, with 16 are at high levels; but they don't give the numbers in 16 Yushchenko; is that right? A They used Olestra with the two ladies from 17 here. 17 18 Q While we are on the subject of chloracne, I 18 Vienna, also. 19 know I discussed this with Dr. Sawyer, and forgive me if 19 Q Did it work? 20 I covered this with you. 20 A It is a miserable, miserable drug. It causes Are you familiar with the case of Victor diarrhea and people can't take it. So they take it for 21 21 22 Yushchenko? 22 a while till they get sick of it. It may lower the 23 23 level a bit. It is not terribly effective. A Yes, I am. 24 24 Q Olestra is the fake fat; right? Q Victor Yushchenko is the president of the 25 Ukraine; is that right? 25 A That's right. The non-absorbable fat. It is 824 826 the same as Cholestyramine and the cold pressed oils 1 A Yes, he is. 2 Q He was actually - someone tried to poison him that we use. It compresses (phonetic) in the gut. Q And the women from Vienna, have they developed 3 with dioxin? 3 4 A That's right. 4 breast cancer? 5 A No, not yet. And we talked about this earlier, 5 Q Do we know if it was 2, 3, 7, 8-TCDD? 6 A No, we don't know precisely, but he had dioxin it may not be TCDD in the adult that causes the breast cancer, anyhow. Or it may not be nearly as potent a 7 poisoning. And in the poisoning episode, they usually 8 factor in the equation. I mean, you can induce -use TCDD because it is available. If you are running a 9 lab when you are testing this, you can get TCDD as a Q Let's move on. The next paper you have cited 10 standard. in your breast cancer references, it is number 15, the 11 Morris paper; is that correct? Q You could have gone to the German factory and 11 12 seen the Manz paper and gotten it? 12 A That's right. 13 A Yeah, I guess so. You can get purified TCDD 13 Q I am handing you what I have marked as Deposition Exhibit No. 145. This is the Morris paper; 14 from a chemical supply house. 14 15 Q Now, the acute exposure to -- strike that. 15 correct? (Defendants' Exhibits 145 was marked for 16 ... I believe Dr. Sawyer testified that the level 16 of Victor Yushchenko's exposure to TCDD was among the 17 identification by the court reporter.) 17 THE WITNESS: Yes. 18 highest ever recorded? 18 19 BY MR. HOPP: A Among the highest recorded, that is correct. 19 Q And this paper is - would it be accurate to 20 Q There were a couple of other acute poisoning 20 call the Morris paper a hypothesis-generating paper? cases that were documented, several women 20 years ago 21 22 A Well, he reviews all the data. That's the 22 or so, who were up in that range, as well; is that 23 right? 23 value of reading a paper like this. 24 Q What, if anything, does Morris-conclude? A Yes, from Vienna, Austria. 24 25 But Victor Yushchenko did not die from his 25 A Well, he talks about benzene, benzopyrene. He 827 825

does talk about cigarettes, aromatic hydrocarbons, and 1 Q He does not address creosote as a mixture: 2 breast cancer, and PAHs. 2 correct? 3 Q Is Morris a review paper? 3 A No. he doesn't. A Yes. He goes on to talk about PAHs and in 4 Q And does he document any exposure levels to any quite a bit of detail. And then concludes, you know, particular PAHs? that something going on in our environment is causing 6 A No. this. And his candidate is aromatic hydrocarbons, in a 7 Q Does he calculate relative risk levels? Я broad sense. 8 A No, he doesn't do that either. This is a 9 And he reviews a bunch of them. And, of 9 review paper of pointing out all of the papers that course, PAH is at the top of the list here. He does not exist at that time that point towards a link between the 10 11 go into much detail on the polychlorinated hydrocarbons. 11 PAHs and breast cancer. 12 He is mainly focused on the aromatic 12 Q I understand, but Morris does not identify any 13 hydrocarbons. It is a very thorough review of those 13 particular exposure level that is necessary to produce 14 papers up to that time. 14 harm: correct? 15 Q It is sort of a dated paper; right, this is 15 A No. 16 '927 16 Q ... I'm sorry. That was a bad question. 17 A '92, but there was still quite a bit more 17 Does Morris identify a particular exposure 18 evidence already at that time. 18 level that is necessary to produce harm? 19 Q Morris identifies radiation and aromatic 19 A No, he doesn't. 20 hydrocarbons as inducing and promoting mammary cancer 20 Q The next paper on your list of breast cancer 21 is that correct? 21 references is number 16, Muscat, M-U-S-C-A-T; correct? 22 A Yes, that's correct. 22 Yes. 23 He also states that such disparate factors as 23 Q I am handing you what we have marked as 24 urban residents, geographic location of residents, and 24 Deposition No. 146. life-style factors, such as alcohol ingestion, high 25 (Defendants' Exhibits 146 was marked for 828 830 polyunsaturated fat diet, and food selection and 1 identification by the court reporter.) 2 2 BY MR. HOPP: preparation all contribute to exposure to promoter and initiating influence of aromatic hydrocarbon 3 Q This is the Muscat paper; correct? carcinogenesis; is that right? 4 A Yes, it is. 5 5 Q Entitled Adipose Concentrations of A That's correct. That is what he says. 6 Does Morris isolate any particular exposure. 6 Organochlorine Compounds and Breast Cancer Recurrence in 7 any particular PAH which he thinks is significant for 7 Long Island, New York; right? В causing breast cancer? A Yes. A Benzopyrene and DB(AH)A anthracene, which are 9 Q So, again, he is looking at PCBs; right? 10 the experimental animal carcinogens. He also mentioned 10 11 DMBA and PAHs in general. 11 Q - And what, if anything, does Morris conclude? 12 Q In his review, does he discuss human 12 A Muscat. 13 epidemiology studies, or any the animal studies and in 13 I'm sorry. Muscat conclude? 14 vitro studies? 14 That there is a linkage between adipose PCB 15 A Well, he does - he touches on animal studies 15 levels, which is - let me see. I think it is quite a bit. Because in '92, there were fewer studies. 16 recurrence in -- of breast cancer. 17 but he mentions benzene, as well, and its ability to 17 Q Muscat is looking at cancer coming back a 18 induce cancer, and talks about the - mostly the animal 18 second time? 19 study. 19 A Yes, he is talking about it being a predictor 20 20 There wasn't as many studies back at that time of recurrence of breast cancer. Interesting study. 21 in humans as there are now. But he gives a background 21 How does this relate to Sherrie Barnes? 22 as to why people started looking so hard at human 22 A Again, it is showing PCBs which are dioxin-like 23 studies, subsequently. 23 in their behavior increasing the risk of recurrent 24 And he points out why these chemical PAHs, in 24 cancer, which is relevant to our patient, I believe, in particular, are likely to be the cause of breast cancer. 25 the sense that she had a tumor that was very aggressive. 831 829

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What they are suggesting here is that PCBs 2 probably increased breast cancer risk, but that is not 3 the main point. The main point is that it is - or 4 associated with recurrence. 5 Q So Sherrie Barnes had it once and it was fatal? 6 A Yes. She did not have a recurrence. She did 7 not respond to the therapy either, suggesting that her 8 tumor was very aggressive and malignant. 9 And this paper suggests that making the tumor 10 grow more readily would be associated with these types 11 of exposures. 12 Q And in the concluding paragraph, they point out 13 that these results, that is, the results represented in 14 deposition Exhibit 146, conflict - I'm sorry -15 contrast with the author's previous data showing no 16 effect of organochlorine compounds of breast cancer in 17 these women: is that right? 18 A Yes. 19. Q. So there was a previous paper by the same \*\* 20 authors which was negative; correct? 21 A That's right. 22 Q Does the Muscat paper calculate relative risk

of recurrence? A Let's see, relative risk is on Table 5, and as

the level grows, most of the relative risk grows

patients all the way - there are three or four that 2. aren't.

And no one stands out, but then the total turns out to be statistically significant. And the biggest difference is in the blacks. Where they -- it is 129 parts per billion difference.

Q Can you explain that? What does it say about black women?

A That blacks with no recurrence, their PCB total was 406. The blacks with recurrence, their PCB level was 529. Both of those values were higher than the whites.

And the highest at all are the Asian with no recurrence, but there is very small number of Asian, so --

Q So does the Muscat paper identify an exposure level as necessary to cause harm?

18 A No, they do not.

19 - Q Muscat does indicate on, Page 1477, that there were relatively few events in this study and the 21 positive findings could have been due to bias?

A Sure.

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23 Q What is bias in this context?

> Something that is causing the results that is not a true cause. Bias just means that there is

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significantly with each PCB congener.

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It is interesting. Not all of them were that way, but starting with - with the 74, lowest tertile was 1; middle tertile was 1.3; and highest tertile 1.7.

And then, anyway, they go all the way down. Some of them are statistically significant. Some aren't. The total PCBs is most significant at the highest tertile. 2.9 is the relative risk with the statistical significance.

Q This paper actually does contrast with some of the other papers we looked at, even today, which show that some of these same congeners do not increase the risk of breast cancer; correct?

A Yeah, I think it would be -- they need bigger numbers, probably, to do that, but more importantly -. Q Explain that. Who would need bigger numbers to

17 do what? 18 A Well, how many patients did they have? 30 19 patients in the recurrence category.

Q You are talking about Muscat?

Muscat. If you had maybe 300, you might be able to start seeing differences in the individual congeners; but they do have mean concentrations in the

24 blood of the various congeners and consistently -pretty consistently, they are higher in the recurrence

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1 something that is screwing it up. 2

Epidemiology people always say those sorts of things. It is just terms of epidemiology.

It could have been through chance. It could have been bias. We don't know. We tried to remove all the bias; but there is always a risk. Something that we didn't control for.

Q Isn't that what epidemiologists spend most of their time doing? Try to eliminate possibility of their - chances, influencing their - -

A Yes, they spend a lot of time.

Q That is the whole point. If the result is 13 dictated by chance, then you have wasted your time doing vour -

A Exactly. You are going to get a negative study... That is why they tighten, over the years, the criteria to say significant.

It used to be, when I started out in medicine, P value of .1 was considered significant. Now, it is .05. So you have to have a really good study, really a strong effect to get statistical significance.

Q Your next study on your list of breast cancer references is the Negri, N-E-G-R-I, study; is that right?

25 A Yes.

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1 Q Handing you what I have marked as Exhibit 147. 1 of the related compound. 2 2 Q So it is generally informative, but not (Defendants' Exhibits 147 was marked for 3 3 directly related? identification by the court reporter.) 4 4 BY MR. HOPP: A Correct. 5 5 Q The next paper in order on your breast cancer Q This is the Negri study; right? 6 6 reference list is Petralia; is that right? A Um-hmm. 7 7 Q This is a review article; right? Yes. 8 8 Α It is Petralia, 1999? 9 9 Yes. Q And it looks at exposure to PCB and breast 10 10 cancer? Q Petralia has written several articles on this 11 11 A Yes. subject: right? 12 Q And what does Negri and/or her coauthor 12 A I have Petralia - another one of the Petralia 13 13 conclude? papers on the new - that I gave you. Two more, '95 and 14 14 '98. A Well, I think the important point is that you 15 need to take into account genetic susceptibility in 15 So you have got some older papers? order to explain what is going on; and that in the 16 '98 and '99. So I have got the '99 paper, but 16 17 I have got an earlier '98 paper that I have added. 17 general population, without the genetic risk factor, 18 there probably isn't an increased risk. 18 Q Let me show you Exhibit 148. 19 19 Q So, in fact, at the concluding part of the (Defendants' Exhibits 148 was marked for 20 20 identification by the court reporter.) study, right above the acknowledgments, Negri and 21 21 coauthors say, "In conclusion, the BY MR. HOPP: 22 22 epidemiological evidence does Q This is 1999 Petralia paper? 23 23 not support the hypothesis of A Yes. 24 24 And Petralia is looking at the premenopausal -a direct relation between 25 environmental exposure to PCB 25 I'm sorry, risk of premenopausal breast cancer in 836 838 adulthood in the general population 1 1 association with occupational exposure to polycyclic 2 and the risk of breast cancer"; right? 2 aromatic hydrocarbons and benzene; is that right? 3 A That is what he said in the abstract, which I 3 A Yes. 4 just read to you. Q So this is an occupational study? 5 5 Α Q And then he goes and talks about a 6 specific genetic variation like -6 And does it look at women particularly in these 7 7 occupations? A Right. He is really just repeating what we 8 8 said earlier about the CYP1A1 and the exon 7. He does A It has to be. 9 9 not mention exon 7, but in Table 5, he mentioned that. Premenopausal --10 10 A The rate in men, as we know, is quite low. So Q But for the general public, Negri is, 11 11 it is women. And the exposures were variable. essentially, a negative paper; right? 12 12 They took occupational history of the exposure A Yes, that's the point. But when you take into account the -- see, there is a couple of papers that we 13 13 assessment for PAHs and benzene was developed to have not gone through that are reviewed here that make 14 determine which occupations had exposure. And then they developed a matrix for that, which included the PAHs and 15 15 the same point. 16 Interaction between PCB and the CYP1A1 16 the benzene and others things, as well. 17 polymorphism, I think what the science has evolved to 17 Q And which exposure levels did they find to be 18 the point that it takes - you can have the CYP1A1 gene 18 significant to increase the risk of premenopausal in 19 19 breast cancer in their occupation when exposed to both? and not get breast cancer; but if you have it and are exposed to PCBs, then your risk of breast cancer 20 20 A PAH and benzene, highest risk was in PAH and 21 increases significantly. 21 benzene together. They found statistical significance 22 Q And how is this study relevant to Sherrie 22 in all of them and the biggest abnormalities were in the 23 Barnes? 23 ER positive cases. 24 24 Well, it is like all of the others. I have Q What is that? 25 referred to in the PCB literature. It shows the effect 25 Estrogen receptor positive, which we looked at 839 837

10 and 8, then they don't get statistical significance yesterday in our case. 1 2 even though they have elevated odds ratios. 2. Q Oh: ER-positive breast tumors, that is a 3 3 Q Looking at Page 220, this is the first full particular type of tumor? 4 4 paragraph. It says, "When our results A Yes, this is the first time we have seen that. 5 are interpreted, several issues 5 Q Okay. Seen what? Seen a study? 6 need to be considered. The 6 A Seen a study where they looked at the ER 7 7 response rates for both the cases and positive and ER negative. 8 referents" -- that is R-E-F-E-R-E-N-T-S 8 Q Forgive me for covering this again, but we -- "were low." 9 don't know whether Ms. Barnes had a ER positive or ER 10 Now, that is a problem for epidemiology? 10 negative breast: right? 11 A Where are you reading from? 11 A Yes, I don't think we do. 12 Q Page 220, first full paragraph, starting with 12 Q Again, forgive me for asking you to say this 13 the words, "When our results are interpreted." 13 again, but what was the dose level that the authors of A Oh, I see, on the right-hand side. the Petralia paper found to be significant for inducing 14 15 Q Low response rate is a problem for an epi 15 breast cancer? Did you say it was every dose? 16 A Well, they have got some duration data here 16 study; right? 17 A Yes, the response rates were low. That is a 17 which would be a surrogate for dose. 18 18 problem. Q Oh. I see. They use job exposure matrixes and Q And would you characterize it as a case control 19 lifetime occupational history; is that right? 19 study or a cohort study? 20 A Yes. And they had low exposure and medium to 20 21 high and then cumulative low, medium to high and, in 21 A Case control. Q How does this paper, the Petralia paper, relate 22 22 general, I think they only found a few cases that were a 23 statistically significant; but the numbers in each cell 23 to Sherrie Barnes? 24 A She was exposed to both benzene and to PAHs, 24 are so small that it is not likely to find statistical 25 25 and so it would be a direct relationship. Although it significance. 840 842 1 was not occupational exposure, she had environmental 1 So there were some elevated odd ratios. In exposure. I would submit that she probably had higher fact, lots of them were elevated; but it didn't reach 2 exposures to PAHs and benzene than the people in this 3 statistical significance, except in a few cases. 3 4 4 study. And, again, if you look at the ends, that is 🖘 5 Q Does the Petralia study, then, identify an 5 the problem. There aren't enough in each of the cells exposure level that is necessary to cause harm? 6 6 to reach statistical significance. A No. it doesn't have any quantitative data. 7 7 Q So it is too small a study, really, to Q All right. The next study in order on your 8 effectively evaluate statistically significant 8 list of breast cancer references is Pliskova; is that 9 9 association? 10 · 10 "right? A With dose. It is a large enough study to say in general. I mean, you have got quite a few people in 11 A Yes. 11 12 Q P-L-I-S-K-O-V-A. I am handing you what I have 12 the exposed categories. marked as deposition Exhibit 149. This is the Pliskova 13 Q So overall, looking at overall exposure, they 13 paper: correct? 14 find an increase risk? 14 (Defendants' Exhibits 149 was marked for 15 A That's right. 15 identification by the court reporter.) 16 -16 Q. But they cannot break that down by exposure. THE WITNESS: Yes. 17 classification? 17 BY MR. HOPP: 18 A Right. Of the patients that they looked at, 18 Q I have actually handed you two things. One is 19 they had 25 of PAH alone; 35 of benzene alone; 6 19 the abstract and one is the article. 20 exclusively PAH; 19 PAH and benzene; and 16 exclusively 20 21 with benzene. Those are --21 A Oh, yeah. 22 Q Let me have the abstract back, so we don't Q Small numbers? 22 23 A Relatively small numbers, but big enough to get 23 confuse ourselves. 24 statistical significance on many of these; but then when 24 A Okav. 25 the numbers drop down to 16, 8, 13, and 11, 10 and 9 -25 So Deposition Exhibit 149 is the Pliskova 843 841

and stimulate cell proliferation." 1 article: correct? Point being, that they have similar toxicity of A Yes. 2 2 TCDD and that the effects of the two together are going 3 3 Q And Pliskova article states what, specifically? to be at least additive. 4 Benzopyrene and - what is the second one? 4 5 Q Similar effects, when they contact the Ah 5 Benzanthracene. receptor; right; that is what they are saying? 6 6 Q Is this an in vitro study? 7 No, this is talking about other effects. That 7 This is an in vitro study. Α 8 is the point I was trying to make. 8 Q So, again, they are studying cells in a petre 9 Non-Ah receptor stimulated toxicity, because 9 dish? these other types of toxicity to the cells are not 10 A Yes. 10 related to the age receptor. And they are pointing that 11 11 Q What does Pliskova conclude, if anything? 12 A Well, it is a mechanism paper. They talk about 12 out. That's all. 13 Q Let's look at the first page of the article. 13 how it induces -- benzopyrene induces P53 tumor This is on the right-hand column, about an inch or so 14 suppressor expression and abolish both S-phase arrest 14 down, she says, "Today, PAHs are 15 and apoptosis induced by the PAHs. 15 regarded mostly as antiestrogens Potentiated deprecative effect of Bap. Thus, 16 16 17 17 ...principally due to their ability to specific genotoxic and non-genotoxic event for activate arvi." A-R-Y-L. "hydrocarbon interacting on the effects of BaP cell proliferation. 18 18 19 Q How about in layman's term, what are we looking 19 receptor," that is AhR receptor, "which 20 at? 20 may lead to supression of estrogen 21 response element controlled gene 21 A I think the reason that I thought this was 22 22 important is because of this notation about expression." 23 So they are talking about the PAHs being 23 non-genotoxic mechanisms which hadn't been talked about 24 protective in some measure; is that right? 24 too much on any other paper. 25 A No. Stimulating Ah receptor creates adverse 25 Q Well-846 844 A And they also talk about the BAP and TCDD have 1 effect. It influences the ability to the cell to 1 2 regulate its growth properly. 2 some similar toxicities. 3 Q Does an antiestrogen cancel out an estrogenic 3 On Page 254, in the right-hand column, in the 4 4 compound? first full paragraph, about halfway down it says, 5 5 Yes, it would. "Using a combination of DNA What is the relevance of the Pliskova paper to 6 6 staining and detection of BrdU 7 7 **Sherrie Barnes?** incorporation, we found that 8 8 A Well, I have been trying to say that, to me, it like TCDD, BAP and BAA also addresses the issue of the dioxin, plus the PAHs being 9 9 partially inhibited induction of 10 more harmful. 10 S-phase entry by E2. However, Q Okay. Does it identify a particular dose or 11 unlike TCDD, both BaP and 11 exposure level in which harm would occur? 12 12 BaA also stimulated G1-S-phase A No. It is an in vitro study. It wouldn't have 13 13 transition, when applied to 14 any quantitative value. 14 serum-starved cells, albeit to a Q So it is hypothesis generating in that regard? 15 lesser extent than E2 itself. 15 No, it demonstrates in an in vitro system, a 16 16 Interestingly Dibeno[a,h]anthracene, mechanism. Those give us insights into why we would 17 17 a strong AhR ligand, which has been have this young woman developing such a malignant cancer 18 18 shown to be antiestrogenic in MCF-7 at such a young age following in vitro, in utero, and 19 cells, had the same effect as TCDD 19 early childhood exposure to these chemicals. 20 20 both on the E2-treated and untreated Q Well, it looked at particular PAHs; is that 21 21 cells. These results seem to support 22 22 right? the hypothesis that unlike other PAH's, 23 23 Α Yes, they looked at two particular PAHs. BaP and BaA, or their metabolites that 24 They did not look at creosote as a mixture? 24 are less efficient inducers of 25 25 A Right. Correct. AhR-mediated activity, can activate ER 845

Q Which - which congeners of dioxin did the Chapaevsk, C-H-A-P-A-E-V-S-K, Russia; is that right? 2 Pliskova paper.study? 2 Α 3 3 A TCDD. Q What happened in Chapaevsk, Russia to make 4 Q So you had one congener of dioxin and two Revich want to study dioxin exposure? 5 different congeners of PAH? A There was a pesticide plant there that made 6 6 chlorinated pesticides. A I don't think they actually did TCDD. They 7 7 just referred TCDD studies. They, themselves, just did In particular, TCDD; right? 8 PAH studies. 8 A No. Nobody makes TCDD, but they were making 9 Q Okay. So the Pliskova paper does not actually 9 lindane. 10 study a synergistic effect between PAHs and TCDD? 10 Q Lindane, Okay, 11 A Correct. 11 A And they generated a huge pollution with TCDD. 12 Q It just shows that certain -- certain PAHs at 12 TEQs. There was a -- they had levels that are a little 13 certain levels can have a dioxin-like effect? 13 bit higher than the levels that we have outside the 14 A There is some missing page here. 14 Koppers plant in Grenada, but not too much higher. 15 Q Sorry. 15 There is certainly a good overlap there. 16 16 A 247 is missing. Q Okay. All right. Did Revich find an increase 17 Q I will have to supply that. 17 incidence of breast cancer in this exposed population? 18 18 A 249 is missing. 251 is missing. 252 is A Yes, I think that is the point. The 19 19 missing. ... Chapaevsk -- how did you pronounce it? 20 Q You just got the even pages? 20 Q Chapaevsk. 21 21 So I am looking for things like what they used, Chapaevsk women had a higher risk overall due 22 22 to breast cancer. 2.1, at 1.6 to 2.7 and then some but the pages are missing. 23 Q But from the abstract – and I apologize for 23 other cancers, as well, 24 that, Doctor. We will supply a full copy when we come 24 Increase female breast cancer in all age groups 25 back to this in our next session. 25 compared to Russia and the Sumara region in 1998. There 848 850 1 From the abstract, it looks like they were not is a table in here. I think a graph - a figure that -2 studying the synergistic effect; is that right? 2 Figure 1 and Figure 2. 3 A No, they were not studying the synergistic 3 Figure 2 is the female breast cancer rate. 958 4 effect. I am simply saying that that is one the reasons is the page. And it shows consistently at all ages 5 why it is relevant. 5 higher breast cancer rate for women in that region. 6 Q It suggests --6 Q Compared to the rest of Russia and to this 7 7 A It suggested that the two together are going to other area, the Sumara area? 8 have a more likelihood of developing the cancer. 8 A Yes, which is probably the general area that 9 Q Can we do one more paper and then call it 9 this thing is in. And they also have some data on 10 quits? .... ... concentrations of the PCDD and PCDF in the blood, milk; 10 11 A We will do Revich. 11 soil; air; and they also have some data on how far away 12 MR. HOPP: Keith, you all right? Can you hang 12 they were from the plant for concentration of blood. 13 in there? 13 The - I think this is TEQ - yes. Picogram 14 MR. PRUDHOMME: Sure. 14 TEQ on Table 13, they had six people that they studied 15 BY MR. HOPP: 15 which was within one to three kilometers of the plant. 16 Q Let's do Revich. The next document on your 16 Their values were 75, picogram TEQ, opposed to 17 list, Doctor, 20, is the Revich paper; right? 17 those that were five to eight kilometers away where it 18 A Yea. 18 was four people. And their value was 24. And then they 19 Handing you what we marked as Exhibit 150. 19 did some other control values. 20 (Defendants' Exhibits 150 was marked for 20 -Q So is this like a cohort study or a 21 identification by the court reporter.) 21 cross-sectional? 22 BY MR. HOPP: 22 A This is cross-sectional, environmental, 23 Q This is the Revich paper; right? 23 biomarker and -- yeah, cross-sectional study. I don't 24 A Yes. sir. 24 think they had any controls. They used, as I said 25 Q And Revich is looking at dioxin exposure in 25 already, published rates. 849 851

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Q So did Revich, in looking at breast cancer, 1 A Yeah, that is the workers. I am talking about 2 2 attempt to control other known risk factors? people who were living next to the site. 3 A Let me see what he did in terms of that issue. 3 Q One to three kilometers, it was 75,2? 4 4 A That's right. I think he assumed that - I don't see that he 5 5 Q And for his analysis of breast cancer, does he did any analysis, for example, age of menarche, 6 menopause, and all of that other stuff. 6 combine the workers and women who lived near the plant 7 7 or does he examine just the women who lived one to three Q Right. Now, he did identify exposure levels or at least --8 8 kilometers from the plant? 9 9 A I think he may have combined them, but I don't A Yes, he had exposure levels. 10 Q And did he identify the level at which the 10 know, looking at this. Yes, that was four workers who 11 exposure is likely to cause harm? 11 worked in the plant. And that he refers to an earlier 12 A Well, I don't think we can say that because he 12 paper that he published that report. 13 13 doesn't have a no effect level. Q Six women who lived from one to three 14 14 kilometers? In other words, he has a level of blood TEQs in 15 six people that lives within one to three kilometers of 15 A And there was six women who lived between one 16 the center. So we can say that if you are between the 16 to three kilometers. That is where the 75 came from. 17 background level and that level, somewhere in there 17 That's also from an earlier paper. 18 would be the level at which you start seeing any 18 Q So workers from one to three kilometers 19 excesses. 19 combined, that is a total of ten women; right? 20 20 Q He does not give us a bright line for excess A Yes. Well, it does not say that they are all 21 levels of cancer? 21 women; do they? 22 22 A Well, what they say in regulatory circles is Q Yeah, look at Table 4. Female blood? 23 that he gave a single value that was the only and, 23 A One to three kilometers. Four - okay. The 75 24 therefore, the lowest observed adverse effect level of 24 is the one - is the six there? 25 75 in the blood. 25 Q Maybe it is a bit obscure, I mean, the title of 852 854 1 Q 75 picograms per gram? the table says Female Workers Blood and then the column, 2 Α Yes, picograms per gram. 2 one to three kilometers, that is not workers. So it is 3 3 Q And that is total TEQ? a bit ambiguous; isn't it, with respect -4 Α Total TEQ. 4 A Yeah, it is. That is an interesting question. 5 Q Which is much higher than the level that was 5 Are they all women or is this men and women? 6 measured in the cohort in Grenada; correct? 6 Let's see, we are talking about dioxin and public 7 A Well, it is a - it is higher than the average. health. The guy is not a really skilled writer. 8 Q Total TEQ in Grenada was 34; right? 8 Q Well; he is Russian. 9 A Not the highest values, no. I think we had 9 A Well, it is not his native language. It's hard 10 some others that were high. 10 for them to sometimes get it straight. Even I have had 11 Let's see if I can find where I did look at 11 Russian papers that I read and had them translated, and 12 this. We have one - I think one of these values. The 12 they were really awful. 13 TEQ was 92 on one of our folks and another one was 93 13 But here is an example of some complexity that One had 50. One at 89. So we had some that were 14 is hard - blood samples were taken from 14 people. 15 dearly up in that range. 15 90 percent of women lived in Chapaevsk versus for more 16 Q Okay. But --16 than three years. So maybe it is all women. 17 Α Yeah, the mean value is whatever we said it 17 Q Total on Table 4 is 14. You got four workers, 18 was. 18 six --19 Q But what is the mean value in the Revich paper? 19 A Yeah. 90 percent of the women - it must be 20 A 75. They didn't give the breakdown. Yeah, the 20 all women. mean value is higher. I agree with that. Now, there is 21 Q Okay. 22 also some soil values here. 22 A But it does not say that anywhere. 23 23 Q Well, let's start with the workers -- female All right. In any event - at any rate, Revich workers' blood. The workers had a total TEQ of 412; is 24 identifies the effect level being 75 picograms per --25 that right? 25 A Yeah. Yeah. We do have something to look at. 853 855

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	MR. HOPP: Okay. All right. Shall we knock off for the day? It is 5:00 o'clock  THE WITNESS: You won't get an argument out of me.  ///	3 4 5 6 7 8 9 10 11 12 13 14	I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were placed under oath; that a verbatim record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; further, that the foregoing is an accurate transcription thereof. I further certify that I am neither financially interested in the action nor a relative or employee of any attorney of any of the parties. IN WITNESS WHEREOF, I have this date subscribed my name.  Dated:  Diana Janniere CSR No. 10034
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	I, JAMES DAHLGREN, M.D., do hereby declare under penalty of perjury that I have read the foregoing transcript; that I have made any corrections as appear noted, in ink, initialed by me, or attached hereto; that my testimony as contained herein, as corrected, is true and correct.  EXECUTED this day of		
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